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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/006,222	12/10/2001	Christian Oliver Paschereit	033275-334	9002	
7590 06/06/2003 Robert S. Swecker BURNS, DOANE, SWECKER & MATHIS, L.L.P. P.O. Box 1404					
			EXAMINER		
			COCKS, JOSIAH C		
Alexandria, VA 22313-1404		ART UNIT	PAPER NUMBER		
			3743	,	
			DATE MAILED: 06/06/2003	+	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)		
Office Action Summary		10/006,222	PASCHEREIT ET AL.		
		Examiner	Art Unit		
		Josiah C. Cocks	3743		
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address		
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.					
 Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 					
Status					
1)[🛛	Responsive to communication(s) filed on 10 E	December 2001 .			
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Thi	is action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
•	ion of Claims				
,	4)⊠ Claim(s) <u>1-4</u> is/are pending in the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
-	Claim(s) is/are allowed.				
•	Claim(s) <u>1-4</u> is/are rejected.				
· ·	Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or election requirement. Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on 10 December 2001 is/are: a) accepted or b)⊠ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:					
	1. Certified copies of the priority documents	s have been received.			
	2. Certified copies of the priority documents	s have been received in Application	on No		
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
 a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 					
Attachmen	•				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.5, 8.6 4) Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152) 6) Other:					
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DETAILED ACTION

Response to Amendment

1. The preliminary amendment and substitute specification filed 5/25/02 have been entered.

Priority

2. Applicant's claims for foreign priority under 35 U.S.C. § 119 are acknowledged.

Drawings

3. Figures 1 and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by *Buchner et al.* (US # 6,056,538).

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Buchner et al. discloses in Figures 1-5 a burner for production of a hot gas substantially as described in applicant's claims 1 and 2 including a burner (2) having an outlet edge and opening into a combustion chamber (8) downstream of the outlet edge, a fuel-air mixture flowing out from the burner outlet that forms an outflow boundary layer (see Fig. 1), an a structural element in the form of a shear layer fence/screen (15) that functions to change the thickness of the outflow boundary layer to prevent periodic flame/pressure pulsations within the combustion chamber (see col. 4, lines 55 through col. 5, line 38). Buchner et al. further discloses that the height of fence/screen (15) is substantially parallel to the flow direction (see Fig. 1).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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8. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over *Buchner et al.* (US # 6,056,538).

In regard to claim 3, *Buchner et al.* does not limit the size of fence/screen (15) and discloses that the length of the screen may be varied as desired (see col. 5, line 61 through col. 6, line 5). Therefore, to have selected a height of approximately 5 mm would be simply a matter of optimizing the height of the fence/screen of *Buchner et al.* obtainable through routine experimentation and is not given any patentable weight. (See MPEP § 2144.05 (II)(A)).

9. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over *Buchner et al.* as applied to claims 1, 2 and 3 above, and further in view of *Dobbeling et al.* (US # 5,489,203) (hereinafter "*Dobbeling '203*")

Buchner et al. discloses all the limitations of claim 4 except that the burner is a double cone burner with tangential air inlet channels.

Dobbeling '203 discloses a burner in the same field of endeavor as Buchner et al. wherein the burner of Dobbeling '203 is a double done burner with tangential air inlet channels (see col. 3, lines 12-39). These burners are desirable in ensuring stable combustion with low levels of turbulence and minimized NOx emissions (see Dobbeling '203, col. 2, lines 1-3). Further, these burners seeks to induce better flame stability by initiating smaller pulsations (see Dobbeling '203, col. 2, lines 18-21).

Therefore, in regard to claim 4, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the apparatus of *Buchner et al.* to

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incorporate a double cone burner such as that disclosed by Dobbeling '203 to desirably obtain

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the recognized combustion stability and minimized NOx emissions of such a burner.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Dobbeling et al. (US # 5,807,097), Sowa et al., Knopfel et al., Dobbeling et al. (US #

6.045,351), and EP 0 972 986 are included to further show the state of the art concerning burners

reducing pressure fluctuations.

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Examiner Josiah Cocks whose telephone number is (703) 305-

0450. The examiner can normally be reached on weekdays from 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Henry Bennett, can be reached at (703) 308-0101. The fax phone numbers for this

Group are (703) 308-7764 for regular communications and (703) 305-3463 for After Final

communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (703) 308-0861.

jcc

June 2, 2003

JOSIAH COCKS

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